



November 16, 2005

Ms. Arghavan Rashidi-Fard
Orange County Health Care Agency
Hazardous Materials Mitigation Section
1241 East Dyer Road, Suite 120
Santa Ana, California 92705-5611

Subject: Proposed Target Clean-Up Levels

**Site: Chevron Service Station No. 9-0819
195 East 17th Street, Costa Mesa, California
OCHCA Case No. 98UT93**

Dear Ms. Rashidi-Fard,

On behalf of Chevron Environmental Management Company (Chevron), Science Applications International Corporation (SAIC) has prepared this letter to propose target clean-up levels for the above-referenced site. This letter fulfills the request made by the Orange County Health Care Agency (OCHCA) in a letter dated January 22, 2003.

Following the re-institution of the quarterly groundwater monitoring program in September of 2001, the maximum detections of total petroleum hydrocarbons as gasoline (TPHg), benzene, methyl tertiary butyl ether (MtBE), and tertiary butyl alcohol (TBA) have been 5,000 micrograms per liter ($\mu\text{g/L}$, MW-11 on 2/26/02), 4.3 $\mu\text{g/L}$ (MW-11 on 2/26/02), 3,680 $\mu\text{g/L}$ (MW-11 on 2/26/02), and 633 $\mu\text{g/L}$ (MW-11 on 2/26/02), respectively. Monitoring data collected during the third quarter of 2005 indicate the maximum concentrations of TPHg, benzene, MtBE, and TBA were 350 $\mu\text{g/L}$ (MW-11), non-detect at $<1 \mu\text{g/L}$ (all wells), 110 $\mu\text{g/L}$ (MW-11), and 20J $\mu\text{g/L}$ (MW-11), respectively.

Based on a review of the response from the OCHCA, it was noted that according to the California Division of Mines and Geology (CDMG) geologic map of Orange County (1981) that the site lies about one mile north of the North Branch of the Newport-Inglewood Fault Zone. Therefore, it appears that the site is not located near any sensitive receptors and is highly unlikely to impact lower aquifers and should be considered for target clean up levels at the Low-Risk Threshold Limits (LRTL) of 250 $\mu\text{g/L}$ for benzene and 100 $\mu\text{g/L}$ for MtBE.

The groundwater cleanup goals used by the Regional Water Quality Control Board - Santa Ana Region of OCHCA are the LRTL. The LRTLs appear to be appropriate given the site-specific conditions: the first-encountered groundwater is that of the semi-perched water-bearing zone which is not suitable as a drinking water aquifer; the site is not within a groundwater recharge area; and there is no ongoing source onsite. The LRTL groundwater cleanup goals for BTEX and MtBE are 250 $\mu\text{g/L}$, 300 $\mu\text{g/L}$, 680 $\mu\text{g/L}$, 1,750 $\mu\text{g/L}$, and 100 $\mu\text{g/L}$, respectively.

November 16, 2005
Ms. Arghavan Rashidi-Fard
Orange County Health Care Agency
Hazardous Materials Mitigation Section
Page 2 of 2

If you have any questions, please contact me at (714) 257-6404, or Mr. Mike Bauer, the CEMC Project Manager, at (714) 671-3207.

Yours very truly,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

A handwritten signature in black ink, appearing to read "D. J. Pessler". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Daryl J. Pessler
Project Manager

cc: M. Bauer, CEMC
SAIC Project File